

IN THE SPECIFICATION

Please replace paragraph [0028] with the following amended paragraph:

[0028] The imager can be a multiple-energy imaging unit and can be attached to the inner arm (second gantry) 208 at the end opposite from the diagnostic radiation source 204. The inner arm end 220 attached to the multiple-energy imaging unit 212 can articulate the multiple-energy imaging unit 212 into alignment with either radiation source 202 or 204. Attached to the second gantry 208, the multiple-energy imaging unit 212 is in natural alignment to receive radiation from an extended diagnostic radiation source 204. Fine adjustments to place the multiple-energy imaging unit into alignment with and at the proper distance from the radiation source 202 or 204 are also accomplished with the articulating portion of the second gantry ~~220~~ 208. Alternately, the diagnostic radiation source 204 can be retracted for clearance so that the inner arm ~~208~~ 220 can rotate and the multiple-energy imaging unit 212 articulate until the multiple-energy imaging unit 212 is in alignment to receive radiation from the other radiation source 202 or 204.

Please replace paragraph [0030] with the following amended paragraph:

[0030] **FIG. 2B** is an illustration of an alternate embodiment of the radiotherapy clinical treatment machine using the multiple-energy imaging unit. As shown in **FIG. 2B**, the therapeutic radiation source 202 and the diagnostic radiation source 204 can be

positioned adjacent to each other and attached at the same end of the first gantry 206.

The first gantry 206 can rotate about pivot axis 210 to position either the therapeutic radiation source 202 or the diagnostic radiation source 204 into alignment about the target volume 224. The second gantry, an inner arm-209, can be attached to the pivot axis 210 with an opposite end ~~227~~ 220 attached to the articulating multiple-energy imaging unit 212. The multiple-energy imaging unit 212 can be rotated and articulated until alignment with either radiation source 202 or 204 is achieved, maintaining the target volume 224 in between.